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The Students of Worcester Polytechnic Institute

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The Tech News

"The test of our progress is not whether we add more to the abundance of those who have too much; it is whether we provide enough for those who have too little."

—Franklin D. Roosevelt

Volume 58

Worcester, Massachusetts, Wednesday, November 8, 1967

Number 22

Senior Pub Will Operate in Riley

A senior pub, "The Goat's Head," in Daniels Commons is tentatively scheduled to open this Friday, November 10, from four to six in the afternoon. This pub would serve beer to seniors, graduate students, faculty members, and administration members. Final administrative approval has not been given at the time of this publication.

"The Goat's Head" is the new name selected for the coffee house, which was formerly called "The Rathskeller." The new name was chosen from student suggestions because it is associated with an old Tech Tradition.

"The Goat's Head" will only serve tap beer from a half-keg, which will be stored in a refrigerator in the coffee house. To obtain admission to "The Goat's Head" a card will have to be presented to the bartender. These cards can only be purchased beforehand by seniors over 21, graduate students, and faculty and administration members. The beer must be consumed in "The Goat's Head" and will be served in pitchers, with glasses furnished.

Certain times have been set aside for beer consumption, during which only cardholders will

be permitted in "The Goat's Head." The times are listed below:

Wednesday night—9-12 p.m.

Friday afternoon—4-6 p.m.

Saturday afternoon—after football games or before basketball games

Saturday night—10 p.m.-1 a.m. "The Goat's Head" is intended to be chiefly a men's club, in which the administration and faculty can mix with the students in a congenial atmosphere. However, a possibility exists that dates of the seniors and graduate students will be allowed in "The Goat's Head."

(Cont. on p. 3, col. 5)

Doctor Parker's Son Starts NASA Training

Dr. Robert Parker, son of Dr. A. E. Parker, chairman of the physics department at Worcester Tech, has begun training to become an astronaut. He is one of eleven selected from nearly one thousand applicants and represents the first of a new breed of astronauts who will be primarily

scientists. His mission will be to obtain astronomical information using the Manned Orbiting Laboratory for a thirty day period.

In October, 1966, the National Academy of Sciences circularized for applications for the new kind of astronaut-scientist. Nearly one thousand replies were screened and rescreened. Sixty-nine were recommended to the National Aeronautics and Space Administration. After extensive physiological and psychological tests, with identical standards to those enforced on the Mercury, Gemini, and Apollo astronauts, eleven finally qualified for the program, which began September 18, 1967.

The eleven face two years of training for spaceflight in general, including a year of flight training on jets and helicopters. After they have been selected for a specific flight, they will face eight to nine months' training for that particular mission.

Dr. Robert Parker earned his Bachelor of Science in astronomy at Amherst College in 1958, and, while, on National Science Foundation fellowships, earned his Ph.D. in astrophysics at Cal Tech. He did postdoctoral work at the University of Wisconsin, was an assistant professor of astronomy there, and later became an associate professor before leaving the University of Wisconsin for the NASA program. Dr. Parker has always been interested in astronomy and views his future space journeys as an opportunity to observe the universe from outside the earth's atmosphere. He hopes one day to observe the stars from the moon, but fears he will be too old by the time that is a possibility.

Dr. Parker will make astronomical observations from the Manned Orbital Laboratory. A Gemini booster and capsule will carry him to the Laboratory, which will already be in orbit. He will remain in the MOL for thirty days, and then return to Earth in the Gemini capsule.

Friday Evening Highlighted By "Banners at Shenandoah"

A Civil War setting will deck Alden Memorial this Friday for the annual military ball, "Banners at Shenandoah." The event is being presented by Scabbard and Blade and features George Gregory and his Orchestra, who will entertain from 8-11:30 p.m.

As an inducement to promote large-scale participation by fraternities, the R.O.T.C. Department is offering a band, Ida's Rug, for the evening of Saturday, November 11, to the house which has the largest percentage membership at the ball. Ida's Rug is a popular group at Cape Cod and has played such clubs there as Mill Hill.

The military ball is an annual affair at Tech. The purpose of holding such a function is in line with the military tradition of holding annual formal social affairs. This year's theme was chosen because, as Tom Fitzpatrick, Scabbard and Blade president, said, "it may be romanticized into an appropriate setting."

Decorations for the military ball are being planned to intensify the Civil War setting. Alden Memorial will be covered by blue and grey streamers and a Mason-Dixon Line will be established across the hall. A rotating projector will show slides behind the band of Southern plantations and other such scenes conducive to the 1865 atmosphere.

Attire for the affair is to be strictly formal. Only advanced corps cadets are required to wear

dress uniforms, while Tech students are requested to dress in appropriate formal civilian attire. Dates are naturally also expected to dress formally.

Tickets may be purchased from dormitory and house representatives and from the Military Science Department. Tickets will not be available at the door.

Junior Prom Committees Organized

The Junior Prom Committee, headed by Ron Stelmak, is organizing to prepare for Prom weekend, April 20. The Committees and chairmen are:

Decorations
G. Harkness
R. Robey
R. Romeo

Business
M. Noga

Program
J. Rodier
R. Reidy

Miscellaneous
J. Atkinson
P. Kazemsky

Tickets
R. Miles
D. Rapp
(Cont. on p. 3, col. 5)

Generals to Speak On Viet Nam Issue

TECH NEWS SPONSORS FORUM OF OPPOSING VIEWS

Two retired generals will speak on the topic of U.S. involvement in Viet Nam. Brig. General William W. Ford will present an address entitled "The Unbearable Price of this War," at 8:00 p.m., Wednesday, November 15 in Alden Memorial Hall. On Nov. 20, Lt. General Harry P. Storke (ret.), President of the Institute, will

offer his thoughts in "Why We Fight—Overseas." The President's address will be given at 8:00 p.m. in Morgan Hall.

General Ford reached his decision to speak out on this issue only after long appraisal of his feelings on the matter and his position as a retired General in the US Army. He has emphasized, however, that his intention is not to stir up trouble and added that he would not tolerate protests of any sort at his address.

President Storke has long deplored the use of war as an instrument of foreign policy, but he believes our presence in Viet Nam is a necessary evil to meet the greater evil of communism. He, too, has criticized irresponsible protest, and has been distressed at the possibility that it may cause American deaths in Viet Nam.

Graduated from West Point in 1920, General Ford was instrumental in the creation of the Light Plane Spotter Service—the beginning of the Army Air Service—before World War II. During the War he was division Artillery Commander of the 87th Infantry Division. He was commander of troops in the N.E. sec-

tor of France from 1952-1954 and received the French Legion of Honor in 1954. He retired in 1954 and has since taught mathematics at the college level.

General Storke had a long and distinguishing military career before coming here in 1962. He graduated from West Point in 1926, and taught at Iowa State College and West Point before the war. From 1943-1945 he was active in the Italian campaign, and after the war he entered the National War College, graduating in 1949. Since then he has had a variety of duties, among them Commander of an Atomic Bomb test site in Nevada (1952), Commander of 1st Corps in Korea (1959), and Commander of NATO forces in S.E. Europe (1960-61). In this latter capacity, he was responsible for the peacetime command of the armies of Greece and Turkey. He also served in the Pentagon and has received the Croix de Guerre.

Both these addresses are sponsored by the Tech News to provide informed—and differing—points of view on the Viet Nam war. These events are open to the public, and representatives from other local colleges, as well as Tech, have been invited.

Annual Techni-Forum Hosts High School Administrators

This year, the nineteenth annual Techni-Forum, held on November 3rd and 4th, was attended by representatives from high schools spread out over the entire northeastern United States. From as far south as Virginia, people came to see the program, look over the school, and talk with Tech people.

The program was sponsored by the Alumni Association and opened at 8:30 a.m. November 3rd in Olin Hall by Harold A. Melden Jr., '49. He introduced Dean Price, who was followed by several department heads and professors. An intermission was provided by tours of the computation facility in the new Gordon Library and of the nuclear reactor in Washburn.

President Storke greeted the participants at a luncheon in Morgan Hall, which was presided over by Robert Taft, '38, president of the Alumni Association. The

afternoon program was highlighted by a panel discussion by several student leaders.

In the evening the proceedings were moved to the Holiday Inn, where a social hour, dinner, and open forum were held.

The second day of the Techni-Forum included more tours and talks. In particular, the participants had the opportunity to see the Alden research facilities in Holden, reputed as one of the finest of its kind in the world.

The general impression of the school on the visitors seemed to be favorable and the program enjoyable. It was discovered that the representatives still feel that the most important aspect of the school is the quality and attitudes of the students they see and have the chance to talk with. It was noted that they seized every opportunity to stop and chat with students, and to ask them what they thought of the school.

The Tech News

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Number 22

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Editorial

Wanna Do Something?

Tech has never been known for the generosity of its students. The fraternities sponsor a few projects, and the faculty work a bit, but on the whole, this school has been sadly inactive in the realm of community service. Most of the blame for this selfishness must be accepted by us, the students. Preoccupied with our studies and ourselves, few of us have cared to give any of our time to help someone who might need help.

While Tech students have gotten drunk at the parties, spent hours in the dorms fooling around, or just passed their daylight hours in restful bliss, students from Holy Cross, Clark, and Assumption have become actively involved in worthwhile community activity; we think it high time that students here give up a bit of time, too.

The Volunteer Bureau of Community Services of Worcester is now desperately in need of help for both paid and unpaid volunteer work. Male recreation leaders are especially in demand, since many of the children at the neighborhood centers are "fatherless." Tutorial assistance—at the Belmont Street School, the Columbus Park School, and the Piedmont Center—is needed. Craft workers to teach woodworking and other similar crafts are needed. Volunteers who have an interest in helping out—even for only one or two hours a week—are needed.

This is not a call to aid the underprivileged. This is an opportunity to help yourself. Sadly, but surely, most of you who read this will dismiss this with a laugh. For your time is too valuable to give to someone else. You plod along in your dull unimaginative rut, and this challenge is dismissed as easily as the last bottle of beer was downed last Saturday night. And like that bottle of beer, you stand the risk of getting sucked down an empty bottomless drain.

If anyone is interested in working, no matter how little, please contact the *Tech News*. Or Mrs. Howard Lewis, Director of the Volunteer Bureau, Community Services of Worcester, 757-5631. Your efforts will be greatly appreciated.

AT RANDOM Friday Night From an Empty Green Bottle

.... I looked, and I was afraid, for all before me was emptiness

We are the hollow men
We are the stuffed men
Leaning together
Headpieces filled with straw. Alas!
Our dried voices, when
We whisper together
Are quiet and meaningless
As wind in dry grass
Or rats' feet over broken glass
In our dry cellar ...

This is the dead land
This is cactus land
Here the stone images
Are raised, here they receive
The supplication of a dead man's hand
Under the twinkle of a fading star

—T. S. Eliot from "The Hollow Men"

Letter ...

A WPI Magazine?

To the Editor:

I am interested in starting a magazine of literature and student affairs here at W.P.I. The magazine I propose to start would contain all literary work of a significant nature and articles of general interest to the men at the Institute. If you are interested in working on the staff of the magazine please leave a note addressed to me in the "C" box in Boynton advising me of your interest.

CARL CARLSON

Worcester Art Museum Events for November

Thursday, November 9

Exhibition: Light and Motion. A loan exhibition of kinetic sculpture arranged by artist-teacher, Leon Shulman, of the Worcester Art Museum School.

Sunday, November 12—3 p.m.

Public Concert: Organ Recital by Barclay Wood, organist of the First Baptist Church, Worcester.

Sunday, November 19—3 p.m.

Public Lecture: Willoughby Sharp of New York City will lecture in connection with the exhibition, Light and Motion.

Sunday, November 26—3 p.m.

Public Concert-Demonstration: Luciano Berio, composer, will discuss selected pieces of his electronic music. In connection with the exhibition, Light and Motion.

CURRENT EXHIBITIONS:

CONTEMPORARY JAPANESE WOODBLOCK PRINTS (October 20 - December 17)

LIGHT AND MOTION (November 9 - January 2)

Music

Bananas Don't Grow on Trees Neither Do Joe's Jerry's or Jesse's

by Ritchie Barnes

Take one folk singer from New York City, add three long-haired rock musicians and what do you have? The group is the Youngbloods, the folk singer, Jesse Colin Young, the three musicians, Jerry Corbitt, Joe Bauer, and Bananas—their style unusual, their sound great.

Originally, Jesse Colin Young used to work in Greenwich Village as a singer and guitarist. He cut a couple of records and enjoyed a fair amount of popularity. Then, he learned to play the electric bass and formed a group called Jesse Colin Young and the Youngbloods which signed to Mercury and released *Ryder* which was accepted locally. The group was discouraged and disbanded.

Later, Jesse decided to give another try with some new musicians. The name was changed simply to the Youngbloods and they found themselves signed to RCA Victor. They released *Grizzly Bear and Get Together* which received more notice than they had with the other group, but more importantly, their album received recognition.

Unlike most groups that tried to mix rock and folk, they have a pretty sound rather than a hard biting sound. Not that they are a powerful group, just that they concentrate more on harmony and embellishments.

Most of the songs are old standards like *Statesboro Blues*, *The Other Side to This Life*, *C. C. Ryder*, and *Ain't That Loving You Baby*. Two are by Jesse; and two are by Jerry Corbitt.

But no matter what they do, it comes out sounding entirely different from anyone else's arrangements.

A couple of weeks ago they came out with their second album. You can feel that while they were a tight group in their first album, they now have learned to lean on each other, and they are closer. Two of the songs are Jerry's, two are Jesse's, and one Chuck Berry song. Again they end up with their own distinct sounds, pleasant, yet powerful.

Entertainment

Dave Van Ronk and
The Hudson Dusters

Unicorn Coffee House
Boylston St.
Boston

The Electric Flag—
An American Music Band
Psychedelic Supermarket
Commonwealth Avenue
Boston

Herbie Mann
Jazz Workshop
Boylston St.
Boston

Muddy Waters' Blues Band
Club 47
Palmer St.
Cambridge

Boston Ballet Society
Lecture and Ballet—"From
Classic to Contemporary"
November 10 - 8:15
CLARK UNIVERSITY
Tickets—Box Office
Atwood Hall
Clark University
"Awake and Sing"—Clifford Odets
Five Week Engagement
Charles Playhouse
(Cont. on p. 3, col. 5)



SENIORS
President's Reception
FOR SENIORS AND WIVES
Last Names A - K
4:30 - 6:00 P.M.
HOME OF PRES. STORKE
Sunday

FUTURE FINANCIAL TROUBLE SEEN FOR WORCESTER TECH

by Bernard Dodge

Is Worcester Tech in financial trouble? To answer this question, Mr. David C. Lloyd, Vice-president for Business Affairs was interviewed.

"Worcester Tech is not in trouble financially at this moment," he said. "However, we can foresee a time in the future when our budget will not be balanced." This is a prospect facing most private colleges today, so Tech is not alone. Harvard, for example, must defer some campus improvements due to a lack of available funds.

Where does the money come from, and where does it go? The Tech student paid \$1,800 tuition last year, and his education cost the school \$2,931. The financing of this amount is as follows:

- 61.6% Tuition
- 17.4% Endowment
- 11.0% Gifts and Grants
- 10.0% Miscellaneous

This 61.6%, paid for by the student, compares favorably with the amount paid at other private colleges, which averages two-thirds of the total cost.

Tech has an endowment fund of over 22 million dollars, and the income on this accounts for 17.4% of the cost per student. This fund has accumulated from gifts and alumni donations and is invested primarily in corporate stocks and bonds. Part of the in-

terest and dividends goes directly into scholarship aid, while the rest is considered income and pays for general expenses.

In October 1964, a fund drive was launched to commemorate WPI's centennial year. This Centennial Fund has surpassed its goal of 15 million dollars and contributions are still coming in. Of this money, 9 million dollars was set aside to build and equip the newer additions to the campus: Gordon Library, Goddard, Harrington Auditorium, and the new building at Alden Research Laboratories. The remaining 6 million dollars went into various forms of endowment.

In the school's financial planning, Morgan and Daniels dorms are considered as separate packages. Prices of the dining hall operation and rooms in Morgan are adjusted to arrive as close as possible at the break-even point. The same is done with the bookstore, snack bar, and rooms in Daniels. A similar arrangement will probably be set-up concerning Riley since the addition of the new Commons.

There are no funds now on hand that are earmarked for new buildings. The next new building on campus will be a fourth dorm, but a major obstacle is the interest rate on the required mortgage. Morgan Hall was built with a 2 3/4% interest mortgage, while the financing of Daniels involves a

rate of 3 1/4%. The difference over a period of forty years is far from insignificant. With the present tight money situation, the building of a new dorm would involve an even higher interest rate.

With costs rising beyond the point where alumni donations endowment income can effectively support the school, we have the dilemma of the private college. Tech, and all other private learning institutions, want to maintain high standards of quality education, but this costs money. "Excellence is a continuing process—not a destination but a journey," said Mr. Lloyd. "Curricula and facilities must be constantly upgraded, and efficiency must be raised without damage to the school's final product—the knowledgeable student."

"There has to be a realization in society that there is in this country a need for both public and private education. If society decides that private schools are unnecessary, then they will disappear," Mr. Lloyd said that although public colleges may provide an education equal to that of a private one, the fact remains that not everyone wants to be one of 20,000 students.

Where will the money come from to bail out the private college? Government needs to work closer with these institutions. Business and industry should contribute more for the final product,

THE U.S. IS BEING INVADED

On December 1st, 1967, the forces of Grand Fenwick will march on the United States. In a special interview with their Chief of Staff, Tully Bascom (Wayne Blanchard), the Tech News learned that Queen Gloriana (Barbara Johnson) and her cabinet (Steve Leece and Warren Bentley) have set their date of attacking the United States at 8:00 on that Friday night. They have learned that the President of the United States (Mark Gerber) and his Secretary of State (Fred White) have put General Snippet (Don Melia) in charge of protecting our most brilliant nuclear physicist (Prof. Heven-thal) and his discovery of a super-bomb that threatens to be the most dangerous weapon ever produced. Tully feels that his gallant force of fighting men (Gary Shillings, Dave Johnson, George McCandless, Jim Bagaglio, and Dave Swenson) can overcome the defenses of General Snippet and his two body guards (Sharyn Billion and Linda Wilson), thus bringing

the student that supplies their needs. Here, government could help by providing a better tax incentive for industries supporting private colleges.

Is Worcester Tech in financial trouble? No, not yet. But some sort of innovation in public support will be needed or Tech will be in trouble, and it won't be alone.

about the downfall of the United States.

This will be one of the most interesting battles of history, for through special arrangement with the Masque, you, the students of Worcester Tech will see the whole scene in its every gory detail. Tickets have gone on sale this week, and are available in the dorms and in the fraternities.

Will the forces of Grand Fenwick conquer the United States? Will the mouse defeat the lion? See "The Mouse that Roared" December 1st in Alden Memorial Auditorium!

PUB

(Cont. from p. 1, col. 2)

Goat's Head" on Saturday night.

Supervision and maintenance of "The Goat's Head" during drinking hours will be the responsibility of a committee established by the student government. During the drinking hours a student at the door will check identification and membership cards. Two more students will be employed to bartend and clear tables. These will possess authority to handle any situations that arise.

This senior privilege arose when a few student leaders approached President Storke with this idea. He gave the student government tentative permission to proceed in this area, as long as the students demonstrated they could handle the situation. During an interview with Dean Brown, Assistant Dean of Student Affairs, it was stressed that "there are all kinds of possibilities" that could arise if this experiment works well.

COMMITTEES

(Cont. from p. 1, col. 2)

Activities in Auditorium
C. Kalauskas

Prom Protocol
C. Obertuck

Refreshments
R. Stanley
D. Sharp

Communications
S. Leece

Special Affairs
N. Glickstein

Publicity
G. McCandless
J. Greene

ENTERTAINMENT

(Cont. from p. 2, col. 5)

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Players

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to the Contemporary periods"

Jordan Hall
Gainsborough Street
Boston

Tickets: Box Office—
Jordan Hall
Telephone 536-2412

Falstaff—Verdi November 15
Lulu—Berg November 17

Carl "Yaz" Yastrzemski
November 18—2 p.m.
Little Commons

Clark University
Admission—\$2

Boston Symphony String Trio
December 4
Jordan Hall

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KEN PLATT

BS, Mathematics, Penn State, joined the 1964 Bethlehem Loop Course. Now he's a computer specialist for the Accounting Department. Ken uses his mathematical knowledge to program financial, engineering, and mathematical problems. Ken is pursuing an advanced degree under Bethlehem's Educational Assistance Program.

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Alan P. Gradet
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Edward H. Jacobs
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Stephen P. Katz
Joseph B. Kaye
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Mark Koretz
Alan H. Shapiro
Robert G. Slavin
Donald M. Swartz
Richard E. Teitelman
Victor Wallock
David M. Winer

ALPHA TAU OMEGA

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Mitchell S. Soivenski
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Ronald C. Strand
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Paul A. Shawyer
Frank W. Steiner
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Ronald L. Zarrella
Michael S. Ziemba

PHI SIGMA KAPPA

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Richard C. Brunet
Carlton Cruft
Dwight Dickermen
John M. Griffin
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Gary J. Larson
James R. Lombard
Gregg C. McWeeney
Robert A. Pace
Thomas A. Raczowski
James H. Snider
Fred J. Szufnarowski
Caleb H. Thomas, Jr.
(Cont. on p. 5, col. 1)

CAREERS IN STEEL



Our representative will be on campus

DECEMBER 4, 5, 6

to interview candidates for Bethlehem's 1968 Loop Course training program.

THE LOOP COURSE trains selected college graduates with management potential for careers with Bethlehem Steel. The Course begins in early July and consists of three phases: (1) orientation at our headquarters in Bethlehem, Pa.; (2) specialized training in the activity or field for which the Looper was selected; and (3) on-the-job training which prepares him for more important responsibilities.

OPPORTUNITIES are available for men interested in steel plant operations, sales, research, mining, accounting, finance, and other activities.

DEGREES required are mechanical, metallurgical, electrical, chemical, industrial, civil, mining, and other engineering specialties; also chemistry, physics, mathematics, business administration, and liberal arts.

If you expect to be graduated before July, 1968, and would like to discuss your career interests with a Bethlehem representative, see your placement officer to arrange for an interview appointment—and be sure to pick up a copy of our booklet "Careers with Bethlehem Steel and the Loop Course." Further information can be obtained by writing to our Manager of Personnel, Bethlehem, Pa. 18016.

BETHLEHEM STEEL

*An Equal Opportunity Employer
in the Plans for Progress Program*



Tech's new \$1.4 million research center in Holden was recently occupied and will be dedicated next spring.

PLEDGES

(Cont. from p. 4, col. 5)

Gary R. Ullmann
Urmias A. Volke

SIGMA ALPHA EPSILON

Mark A. Aglio
Jeffrey N. Berg
Mark S. Bowen
Frank P. Catanzaro
Thomas Conley
James Crittenden
Lowell S. Crocker
Thomas J. D'Andrea
Dwight P. Eddy
Theodore A. Fredericks
Richard Gioiosa
Douglas E. Holmes
John C. Johnson
Timothy C. Johnson
William Kamb
Joseph Laptswicz
William A. Matulewicz
Thomas F. Mirarchi
James P. Murphy
Herbert Nock
Donald K. Peterson
Eugene E. Pettinelli
Peter A. Salis
Paul J. Sartori
Dennis Staba
Robert J. Trachimowicz
Anthony R. Weston
Elden E. York

SIGMA PHI EPSILON

Philip J. Allfrey
William P. Beloff
Kent D. Borner
Stephen Eldridge
Randolph S. Fife
Michael Gannon
David L. Greenhalgh
David Ireland
Kenneth C. Kowalchek
Robert C. Krulish, Jr.
John W. Loehmann

Douglas H. Michel
John C. Moore
Peter Nicholopoulos
Donald St. Marie
Richard Shillalies
David S. Smith
Bruce Soderman
Ralph Sperry
David C. Sund
Bruce R. Tompkins
Donald J. Usher
Kent Van Heukelom
Thomas Wadleigh
Fred Zaiko

SIGMA PI

Glenn Brier
David P. Buelow
Robert M. Byrne
Joe Carter
Ronald P. Charbonneau
Dennis T. Chin
David G. Ferreira
Leonard Fowler
Bruce A. Hillson
George Homme
Richard B. Hopewell
Norman E. Johnson
Robert E. Jolda
John L. Landall
Roger Landry
Gary A. Luptosh
Bruce E. Leffingwell
Umberto Miland
Anthony J. Monteiro
Stephen J. Newhouse
William C. Palmer
Robert A. Payne
Walter Skiba
Gerald B. Tucker
Michael Weill
Ernest M. Wolshin
Wellington P. Yung

TAU KAPPA EPSILON

Barry L. Chesebro
Loren L. Compson
Stephen N. Dykes
James Fay
Gary Graham
William E. Helliwell
Michael A. Hitchko
Thomas J. Kaminski
Lester Mannos
Peter J. Markunas
Gary J. O'Hara
Peter R. Palmerino
James J. Perrotta
Gordon R. Peterson
John R. Pratt
Martin C. Ritter
Bill Rolya
Charles A. Summer
John H. Wall
Michael R. Zilora

THETA CHI

Robert A. Anderson
Robert C. Bell
Stephen Blaisdell
Charles V. Bohling
Charles E. Broadhurst
Paul J. Cleary
Donald H. DeMarco
Gregory S. Dickson
Stephen B. Douglas
Richard F. duFosse
Douglas C. Fay
Charles Harrison
Donald M. Johnson
Daniel F. King
Charles J. Lemoine
Edward C. Lowe, II
John V. Marino
John C. Reed
Donald B. Seaton
Keith Stetson
Albert W. Stromquist
Freeman P. Thurston
Michael H. Turek
Dana H. Worthley

SPORTS SLANTS

(Cont. from p. 6, col. 5)

member past seasons in which the coaching staff took some pretty harsh treatment when it came to their performance.

On the other hand, we still haven't solved the problem of getting support up to any kind of a peak. Rensselaer had as many supporters in the stands at times as we had. For the last home game of the season that isn't much to be proud of, especially after the team had come up with one victory and with some support, may have come up with another.

The reason as to who or what is to blame has shifted back and forth. Is it the fault of the fraternities or the student body themselves? At the press conference last year announcing Mel Massucco's appointment, Bob Pritchard, Director of Athletics, made a comment to the effect that at Tech winning isn't everything. What he was trying to say was that as long as the team gives its 100% effort, win or lose, they are to be commended.

We feel it must be assumed that any team representing Tech is doing so with 100% effort. You cannot do more than that—win or lose, the team at least deserves the support of the students.

SOCCER

(Cont. from p. 6, col. 5)

Paul Hayner, set up by Charlie Spitz, booted the ball in Holy Cross's goal. Holy Cross came back and tied up the game at 15:50 of the quarter when Crowley lined the ball past Tech's goalie, Dave Kuniholm. Tech pressed for the remainder of the quarter but could not score.

In the second quarter, Tech continued to press Holy Cross but could not put the ball in the net. Finally at 14:00 in the quarter, Hayner put Tech ahead when he shot a grounder past the opposing goalie. At the half, Tech was ahead 2-1. However, Tech was out-playing Holy Cross, getting 17 shots to 5 for Holy Cross.

CREW

(Cont. from p. 6, col. 5)

finished a solid fourth. An extremely accurate method of photo-timing allowed the times to be measured to the nearest 0.01 of a second.

Results of Race and times:

M.I.T.	19:41.7
Northeastern	19:42.2
Syracuse	19:58.1
W.P.I.	20:14.7
Vesper	20:29.6
Holy Cross (1)	20:30.6
Holy Cross (2)	20:37.2
Worc. Academy	24:34.8
Tech Boating:	

Bow	Jerry Piepiora
2	John Moskel
3	Walt Lynick
Stroke	Phil LaRoe
Cox	Dave Ploss

FOOTBALL

(Cont. from p. 6, col. 2)

down hard, R.P.I. showed an effective ground game and marched down the field for their final score.

Both teams failed to capitalize on scoring chances in the second half. Tech had a pass intercepted in the R.P.I. endzone to stop a scoring drive.

Another interception gave Rensselaer the ball deep in Tech territory. The defensive unit came in and held for four downs on a "goal to go" situation.

BEHIND THE SCENES

(Cont. from p. 6, col. 5)

Another extremely important task during football games is the recording of all the statistics, such as pass attempts, pass completions, yards gained running, penalties, individual carries, and other game proceedings. This is done by Tech's statistician, Ray Scott, a professor in the Mathematics Department. His job is very helpful to the coaches, for the statistics help to show the strength and weaknesses of the team. The accuracy of the statistician is extremely important. Professor Scott is known as "The best, most accurate, most conscientious man in the league." He is very proficient in his knowledge of the rules of the game and is frequently called upon for information by other statisticians. Occasionally, his results appear nationally.

Professor Scott enjoys his work very much and is assisted by Hal Forest, a former Worcester Tech varsity man who is working for his Ph.D. in Chemistry.

In order for the public to be properly informed on events during the game and about the happenings of other games, a communications coordinator is virtually a necessity. Performing these chores for Tech is Bill Grogan, a professor of Electrical Engineering. He controls the telephones from the press box to the benches and takes any outside calls to the press box. His job also involves calling our quarterly scores to a national ticker-tape service and reports our final results to U.P.I. wire service and other major news agencies. Part of his job is also to announce the scores of games from across the nation which are obtained by our own ticker-tape located in the press box.

Professor Grogan is assisted by members of the student body whom he works with in announcing the plays of the game over the local public address system.

All the men mentioned above devote all their Saturdays in the fall to Tech. Their jobs start long before game time and finish long after the game has ended. They all perform their jobs free of charge and save the Athletic Department a great deal of money which would otherwise have to be paid to professionals. The quality of their work is also very excellent. The Athletic Department of Worcester Tech greatly appreciates their work and efforts.

NOTICE

The Class of '69 will hold an election for Tech Council Representative on November 16, 1967, from 11:00 to 11:45 a.m. in Higgins 109. To date, the candidates vying for the position are:

1. Dom Forcella
2. Pete Grosch
3. Larry Katzman
4. Dave Kuniholm

Any Junior desiring to have his name placed on the ballot is requested to submit a petition of no less than 20 names to James Atkinson, Daniels 228, no later than 12:00 Noon, November 10, 1967.



DON McCANN

BSME, Pratt Institute, supervises the multi-million-dollar replacement parts program at our Lackawanna Plant near Buffalo. Since joining the Bethlehem Loop Course, Don has had assignments in plant engineering, construction, and maintenance. He's studying for an advanced degree under Bethlehem's Educational Assistance Program.

MANAGEMENT MINDED?

Career prospects are better than ever at Bethlehem Steel. We need on-the-ball engineering, technical, and liberal arts graduates for the 1968 Loop Course. Pick up a copy of our booklet at your placement office.

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Worcester, Mass.

R.P.I. Overpowers Tech Eleven 21-0

The Worcester Tech Engineers dropped their fifth game last Saturday to Rensselaer Polytechnic Institute. The Engineers were on the wrong end of a 21-0 score in a game which was played in a rain at Alumni Field. Worcester proved unable to muster an ef-

fective offensive attack, gaining only 6 first downs with a total offensive effort of 116 yards.



Co-Captain John Farley, in his final home game bulls his way through the R.P.I. defense

fective offensive attack, gaining only 6 first downs with a total offensive effort of 116 yards.

The highlight of R.P.I. victory was quarterback John Contento, who gave Tech's defensive

secondary a tough afternoon with his accurate passing attack.

With the opening kickoff, it appeared that Tech had overcome its earlier offensive problems. The Engineers received the opening kickoff and marched down the field to the R.P.I.'s 10 yard line.

But, here, the Tech drive stalled and Jack McCabe's field goal attempt from the 16 yardline was wide.

The Engineers' defensive unit got the ball back when Bill Hilner recovered a fumble on the W.P.I. 46 yardline. However, the offense was forced to punt after three downs.

Contento threw to flanker Hart for three completions and 43 yards. The Rensselaer score came on a one yard plunge. The extra point gave R.P.I. a 7 point lead.

Neither offensive unit was then able to start an effective drive. Tech got the ball on the R.P.I. 13 yardline after a fumble but were unable to move the ball. Tech gave the ball up on downs.

R.P.I. got their second score of the day with only 12 seconds left in the half. Again it was the arm of Contento that set up the score. Contento connected to Lee on a 37 yard pass to the one yard line. R.P.I. ran the ball in for the score.

Rensselaer took the opening kickoff in the second half and switched offensive tactics. With a 14-0 lead and the rain coming

I.F. Volleyball All-Star Team

Paul Arruda (LCA) and Bob Pleines (PKT) led the list of the All-Star Volleyball team selected by the Sports Directors of each fraternity and SHIELD.

Arruda and Pleines, both unanimous choices, are joined on the first team by Dave Rice, Steve Zuckerman, and Joel Schoenholtz (all from AEPi), Ed Olszewski (LCA), and Tom Gurney (SPE).

The second team includes Frank Jensen and Greg Hopkins (both from ATO), Dan Hess, (PGD), Bill Rosku (SAE), Ken Kopka (PKT), and Greg Sovas (SPE).

The Tech News SPORTS

Tech Harriers Tounce Nichols

Last Tuesday Tech won its fifth cross country meet of the season, the second by a perfect score, by defeating Nichols 15 to 46. The first five Tech runners were within 1 min. 15 sec. of each other, purposely bunching up to make the less developed members of the team work to keep up. Consequently Zepp tied for first with Palulis, and Louth placed third, both coming up with one of their better times for this course. Raslavsky and Downie came in fourth and fifth respectively.

The results of last Saturday's cross country meet against Williams and Coast Guard were not as good. The Tech harriers were completely outclassed as they were defeated by a score of Coast Guard 29, Williams 44, and Tech 59. Gary Palulis came in second 28 seconds behind the fine running of Maynard from Williams, who sprinted home with a time of 20 minutes, 38 seconds. The next Tech finisher was Charlie Zepp, who finished in twelfth. Tech then took 13th, 15th, and 17th. The Engineers did not appear to be running in their usual form. This could be attributed to the close of fraternity rushing on Friday.

This makes Tech's record five wins and seven losses, going into their last meet against Trinity and Amherst on Saturday.

Crew Finishes Fourth in Boston

The Worcester Tech crew was represented at the annual Head of the Charles regatta, held on the Charles River in Boston last Oct. 29, by four rowers and the coxswain from last season's varsity eight. Participating for the first time in a fall race, the crew faced the toughest competition of its short three year history when it met crews from M. I. T., Northeastern U., Syracuse U., Vesper Boat Club, Worcester Academy, and two boats from Holy Cross.

The course was demanding in that it not only covered three miles against the current, but there were many sharp turns which demanded the constant attention of coxswain Dave Ploss, who is used to the arrow straight course of Lake Quinsigamond. The temperature dipped down into the forties, and there was a stiff cross wind which kept the water choppy all afternoon.

Because the river was narrow, the teams began from a staggered start with a ten second time interval between each boat. The teams took a rowing start instead of the customary stationary start.

Rowing a steady thirty-two strokes a minute, the Tech blade-men kept up with the boat in front of them and conditioning paid off in the last mile when some of the other crews began to tire. Vesper finished the last few hundred meters at 42 strokes a minute, but it was not enough to overtake the Tech crew, which

(Cont. on p. 5, col. 3)

Engineers Close Out Season Tie B.U., Defeat Holy Cross

BOSTON UNIVERSITY

Last Wednesday, November 1, the Tech engineers were handed their third tie of the season by Boston University in a game that went into double overtime. The final score was Tech —0, BU —0.

Tech started out the first half playing a comparatively slow game to Boston University. The Engineers were outshot by the Terriers in the first half of the game. Although both teams had opportunities to score, neither could capitalize on them.

Tech dominated the last half of the game, taking half of their total game shots in the last quarter. For the defense, John Elfinstone and Lannie Orfitelli played an outstanding game, breaking up many potential fast breaks for BU. Dave Kuniholm, Tech's goalie, played one of his best games of the season at the net, stopping many hard shots on a rough field. Eddie Cannon, Charlie Spitz, Ken Blaisdell, and Paul Hayner, who

was moved from defense to the front line, moved and crossed the ball well, in spite of the field conditions in the last half.

In the overtime periods Tech dominated most of the playing, with the first one ending in a scramble in front of the Boston University net.

This was Tech's third tie of the season. The first one came from Lowell Tech with a 1-1 score, and the second came from Clark, with another 0-0 scoreless tie.

HOLY CROSS

The Worcester Tech Varsity Soccer team closed out its regular season last Saturday with a 5-1 victory over crosstown foe Holy Cross. At the start of the game, it was evident that both teams were having trouble adjusting to the slippery, muddy field due to the rain. Tech broke into the scoring column first when at 11:25 of the first quarter

(Cont. on p. 5, col. 3)

BEHIND THE SCENES

Every year during the fall, spectators entertain themselves on Saturday afternoons by attending Worcester Tech football games. Although the athletes are the ones who perform before the public, there are many men, not known by the people, who perform tasks vital to the playing of each game. These men are the photographers, the statisticians, and the communications coordinator.

The function of the photographers is to film the entire football game. Immediately following the game, the films are sent to Boston where they are processed and available back at Tech on Sunday morning. The coaches use these films in determining mistakes made during the game and they are a tremendous aid in coaching.

The first photographer for Tech was John Bjork, a professor of Mechanical Engineering. He started in 1948 when the alumni

donated to the athletic department two cameras, hand powered with three telescopic lenses. This equipment is still being used and is quite outdated. There presently is a great need for a new power driven camera with a "zoom-lens" and other modern equipment for better pictures to be taken. During each game, approximately 1,200 feet of black and white film in slow motion, is taken of the game.

Succeeding Professor Bjork as photographer was Warren Zepp, also a professor of Mechanical Engineering, who is currently Tech alumni secretary. Professor Zepp was assisted by Roy Bourgault, another member of the Mechanical Engineering Department. Roy Bourgault is currently in charge of the photography and is assisted by Joe Gale and George Schmidt.

(Cont. on p. 5, col. 5)

Sports Slants

Student Support

It is difficult to stand by and listen to spectators openly criticize and ridicule Tech teams and their members for ineptitude or lack of ability. To hear the constant stream of criticisms that some "Tech supporters" can come up with, makes us wonder just whom they are loyal to. What is the reason for it? No team or member of the team, for that matter, deserves to be treated to any sort of harassment as long as he is performing at 100% of his ability.

We feel that the coaches have a little better idea of their own team's capability, and the capability of each member of that team than, say, perhaps, the Monday morning quarterbacks who take it upon themselves to judge. The old saying: "if you cannot do a better job yourself, then keep quiet" still applies, but to some people there is no realization of the damaging effect they're creating. It's difficult to come up with any kind of desire or spirit if you're continually being torn down. Campus attitude in general this fall seems to be much better than in the past. There are still the individuals who continue with the deprecatory remarks, but these seem to be more the exception than the rule. We can re-

(Cont. on p. 5, col. 3)

BOB SIMS

BSEE, Tenn. A & I, joined Bethlehem's 1965 Loop Course, is now an engineer in the Electrical Department at our Lackawanna Plant, near Buffalo, which consumes 1 billion kwh yearly, and generates about 250 million kwh. Bob works on engineering and installation of new equipment, and supervises maintenance.

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